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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,368	11/24/2003	Chao Yang Huang	056655/0120421	4695
²⁶²⁴² NORMA E HE	7590 02/12/200 NDERSON	EXAMINER		
	PATENT LAW		SCHNEIDER, CRAIG M	
13 JEFFERSON LONDONDER	N DK RY, NH 03053		ART UNIT	PAPER NUMBER
			3753	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/720,368	HUANG, CHAO YANG			
Office Action Summary	Examiner	Art Unit			
	Craig M. Schneider	3753			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 13 De	ecember 2006.				
, _					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,	•			
4) ⊠ Claim(s) 3,4,7-9,12-14 and 17-19 is/are pendin 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) 3,4,7-9,12-14 and 17-19 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 24 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a) \boxtimes accepted or b) \square object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

Application/Control Number: 10/720,368

Art Unit: 3753

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 3-4, 12-13, and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Finell (5,275,197) in view of Lau (6,648,004).

Finell discloses a valve comprising in combination a fill hole (24); a screw cap (12), the screw cap having a center aperture (area for 3); and a safety valve (15), the safety valve being separate from the screw cap and accessible through the screw cap center aperture when the valve is assembled, the safety valve further being removably insertable into the fill hole to function as a stopper for the fill hole, the safety valve comprising a stopper portion having a check valve (17) and a safety cap (3) that is removably insertable into the stopper portion (col. 2, line 24 to col. 3, line 39). Finell does not disclose a valve cup. Lau discloses using a valve with a valve cup (12)(col. 2, lines 28-41).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the valve cup of Lau onto the valve assembly of Finell, in order to protect the valve from potential damage.

Regarding claim 4, Finell discloses wherein the safety valve further comprises a seal portion (area between 14 and 16 on the safety valve that abuts the flange part (23)).

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3. Claim 8-9, 14, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Finell and Lau as applied to claims 3, 12, and 17 above, and further in view of Po (4,924,899).

Finell and Lau disclose all the features of the claimed invention except that the stopper portion of the safety valve and the safety valve are permanently joined. Po discloses attaching the safety valve (11) and the stopper portion of the safety valve (12) as seen in Figure 1. Po further discloses a stopper release tab as seen in Figure 1.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the thin attachment strip of Po onto the valve assembly of Finell and Lau, in order to insure that the stopper is not lost.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Finell and Lau as applied to claim 3 above, and further in view of Morton (3,147,763).

Finell and Lau disclose all the features of the claimed invention except that the cap has exterior grooves. Morton discloses that the cap (18) has exterior grooves (21) as seen in Figure 1 (col. 2, lines 46-50).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the exterior grooves of Morton's cap onto the vap of Finell-Lau, in order to provide a better grip on the cap.

Response to Arguments

5. Applicant's arguments filed 12/13/06 have been fully considered but they are not persuasive. The applicant is arguing that the defining the safety valve as being separate defines over the prior art of record. The examiner respectfully disagrees with this and

would like to point out that the safety valve of Finell is separate from the cap. Please note the hash marks that denote separate items in Figures 1 and 3.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig M. Schneider whose telephone number is (571) 272-3607. The examiner can normally be reached on M-F 8:30 -5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Keasel can be reached on (571) 272-4929. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CMS (M) February 5, 2007

ERIC KEASEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700